

Curriculum Vitae

General Information

Name: Krafczyk, Manfred
Date of birth: 24.02.1965



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Present position: Senior Vice-President Digitalization & Sustainability @ TU Braunschweig

Education

1987 – 1991 TU Dortmund, Physics Diploma, Advisor Prof. Dr. Mario Markus, Max-Planck-Institut für molekulare Physiologie

Degrees

Ph.D. Dr.-Ing. (with honors) „Simulation von Strömungen mit Gittergasmethode“, TU Dortmund, 1995, Advisor: Prof. Dr. rer. nat. Ernst Rank

Professorial thesis (Habilitation) Bauinformatik (Computer Science in (Civil) Engineering), TU München, 2001, Reviewers: Prof. Dr. rer. nat. Ernst Rank TU München, Prof. Dr.-Ing. Rainer Helmig, U. Stuttgart

Professional Career

1991-1994 Ph.D. scholarship Siemens AG
1995-1997 PostDoc, Chair for Numerical Methods, TU Dortmund
1997-2001 Assistant Prof. (tenure), Chair Bauinformatik, TU München
2001-2023 Full Professor and Head of Institute for Computational Modeling in Civil Engineering, TU Braunschweig
04/2020-05/2022 Vice-President for Digitalization and Technology Transfer TU Braunschweig
06/2022-08/2023 Senior Vice-President for Digitalization and Sustainability TU Braunschweig (temporarily charged with the conduct of affairs)
since 09/2023 Senior Vice-President for Digitalization and Sustainability TU Braunschweig

Academic Administrative Activities

2002-2020 Speaker of the international Master program *Computational Sciences in Engineering* (CSE) at TU Braunschweig
2003-2006 Member of Public Relations Committee of Civil Engineering Department
2003-2006 Member of Infrastructure Committee of Civil Engineering Department
2003-2011 Member of Sports Committee of TU Braunschweig
since 2003 Head of four Professorial Appointment Committees and member of thirteen more
2014-2015 Member of Sports Committee of TU Braunschweig
2003-2004 Member of Infrastructure Committee of TU Braunschweig
2004-2006 Member of IT & Communication Committee of TU Braunschweig
2006-2007 Provisional head of Gauss-Computing Center at TU Braunschweig

2005-2017 Member of Department Council

since 2006 Head of departmental IT-Committee

2006-2016 Organizer of Double-Degree-Master Program between department of Civ. Eng. and Dept. of Ocean Engineering University of Rhode Island

2007-2013 Department representative for International Affairs

2007-2009 Speaker of Gauss-Center for Modelling and Simulation at TU Braunschweig

2011-2018 Member of tubs.CITY

2009-2013 Member of IT-Commission at TU Braunschweig

2013-2019 Member IT-Steering Committee at TU Braunschweig

2011-2019 Member of Senate of TU Braunschweig

2011-2013 Member of advisory council for the Language Center of TU Braunschweig

2012-2014 Senator of Niedersächsische Technische Hochschule (NTH)

2012-2013 Member of advisory Council for Energy Awareness at TU Braunschweig

2011-2012 Dean of the Department of Architecture, Civil Engineering and Environmental Sciences

2011-2012 Member Board of Trustees *Vereinigte Stiftung der Technischen Universität Carolo-Wilhelmina zu Braunschweig*

2013-2014 Vice-Dean of the Department of Architecture, Civil Engineering and Environmental Sciences

2015-2019 Vice-Speaker DFG-network of TU Braunschweig

2016-2019 Vice-Speaker of [MUSEN](#)-Center (Mechanics, Uncertainty and Simulation in Engineering) at TU Braunschweig

since 2020 Speaker of [MUSEN](#)-Center

2016-2020 Speaker of HPC-User Council of TU Braunschweig

since 2020 Head of Advisory Committee University Library TU Braunschweig

2020-2021 Head of IT-Steering Committee TU Braunschweig

2020-2022 Deputy Head of Supervisory Board Energie-Forschungszentrum Niedersachsen ([EFZN](#))

since 2023 Head of Supervisory Board Energie-Forschungszentrum Niedersachsen ([EFZN](#))

2020-2022 Member Steering Committee [ForschungRegion Braunschweig](#)

since 2020 Member [LHK](#)-Work Group Digital Affairs

2020-2022 Member [LHK](#)-Work Group Third Mission

since 2020 Member Administrative Board Braunschweigischer Hochschulbund

since 2020 Member of Steering Committee [NFDI4Ing](#)

since 2021 Member CIO-Board [TU9](#)

since 2021 Task Force Infrastructures in [CESAER](#) (Conference of European Schools for Advanced Engineering Education and Research)

2021-2023 Member of Strategy Board National High-Performance Computing [NHR](#) (Gem. Wiss. Kommission des Bundes und der Länder GWK)

2020-2022 Board Member Research Airport Braunschweig

since 2020 Board Member [Metropolregion](#)

2020-2022 Board Member TU9-Council Innovation & Transfer

since 2020 Board Member [ForschungRegion Braunschweig](#)

2022-2024 Board Member EUA Digital Transformation Steering Committee (sent by [HRK](#))

2024-2025 Board Member EUA task-and-finish group on Artificial Intelligence (sent by [HRK](#))

Activities in Teaching & Research

08/1997-11/1997 Guest lecturer at Inst. for Biomechanics (Prof. Dr. Miguel Cerrolaza, Universidad Central de Venezuela, Caracas, Venezuela)

09/1999-11/1999 Guest lecturer at Inst. für Terrestrische Ökologie (Prof. Dr. Hannes Flühler, ETH Zürich)

06/2000-08/2000 Visiting scientist at the Institute for Computer Applications in Science and Engineering (ICASE), NASA Langley, Virginia, USA

since 2001 Reviewer for DFG, EU (e.g. H2020-FETOPEN 2016-2021, EIC PATHFINDER OPEN 2022), BMBF, FFG, WWTF, NSF, PRACE and other institutions

2008 - 2017 Member of ISAP-reviewer board of DAAD

since 2004 Co-chairman and Scientific Committee member of *Int. Conference on Mesoscopic Methods in Engineering and Science* (ICMMES) (www.icmmes.org)

2006-2008 Member of Technical Committee *Civil Engineering and Surveying* at [ASIIN](#) (Accreditation agency for Ba and Ma study programs in physical sciences, mathematics and engineering)

since 2023 Mitglied der Akkreditierungskommission der [ASIIN](#)

2008-2010 Chairman of Technical Committee *Civil Engineering and Surveying* at [ASIIN](#)

since 2011 Ass. Editor [Computers & Mathematics with Applications](#)

2011-2021 Ass. Editor [Computers and Fluids](#)

2012-2020 Ass. Editor [Mathematical Problems in Engineering](#)

since 2017 Editorial Board Member [J. of Applied and Computational Mechanics](#)

2017-2020 Editorial Board Member [Computation](#)

since 2017 Editorial Board Member [Advances in Engineering Software](#)

2021-2023 Editorial Board Member [ing.grid](https://www.inggrid.org/) (<https://www.inggrid.org/>)

2011-2019 Board member (Fachkollegiat) of DFG-Fachkollegium 410 (National Research Funding Agency, Chapter Civil Engineering and Architecture)

2011-2017 Member of Standing Committee of *Fakultätentag für Bauingenieurwesen, Geodäsie und Umweltingenieurwesen* ([FTBGU](#))

2013-2021 Vice-Chair National Committee *Computational Sciences and Engineering* (CSE)

Memberships

since 2008 Braunschweigische Wissenschaftliche Gesellschaft ([BWG](#), *Academy of Science Lower Saxony*)

since 2009 Windtechnologische Gesellschaft ([WtG](#), Society of Wind Technology)

since 2010 Working committee Numerical Methods in Wind engineering (WtG)

since 2012 Gesellschaft für Angewandte Mathematik und Mechanik ([GAMM](#))

since 2002 German Association for Computational Mechanics ([GACM](#))

Publications

> 100 reviewed journal- und book contributions, h-index (Google Scholar): 49

<https://scholar.google.de/citations?user=yPfq77cAAAAJ&hl=de>

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SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=6603418597>